AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

Listing Of Claims

- 1. (original) A fuel processor for a fuel cell, comprising:
 - a thermal start device;
 - a mixing region; and
- a temperature control element located between said thermal start device and said mixing region, wherein said temperature control element reduces temperature increase in said mixing region during thermal startup.
 - 2. (original) The fuel processor of claim 1 further comprising:
 - a flame arrestor connected to said mixing region; and
 - a primary reactor connected to said flame arrestor.
- 3. (original) The fuel processor of claim 1 wherein said temperature control element has a cylindrical shape with opposite end surfaces and bores formed between said end surfaces.
- 4. (original) The fuel processor of claim 1 wherein said transient temperature control element has a body defining an inlet and an outlet and a plurality of bores formed through said body from said inlet to said outlet.

- 5. (original) The fuel processor of claim 4 wherein a reduction in temperature increase in said mixing region that is provided by said temperature control element is related to a number of said bores forming passages through said body, a length of said temperature control element, and a surface area of said passages.
- 6. (original) The fuel processor of claim 1 wherein said temperature control element is passive.
- 7. (currently amended) A method of controlling thermal startup temperatures in a fuel processor of a fuel cell <u>system</u>, comprising the steps of:

providing a thermal start device and a mixing region; and locating a passive temperature control element between said thermal start device and said mixing region, wherein said temperature control element reduces temperature increase in said mixing region during thermal startup.

- 8. (original) The method of claim 7 further comprising: connecting a flame arrestor to said mixing region; and connecting a primary reactor to said flame arrestor.
- 9. (original) The method of claim 7 wherein said temperature control element has a cylindrical shape with a circular end surface with bores formed therein.

10. (original) The method of claim 7 wherein said temperature control element has a body with an inlet and an outlet and a plurality of bores forming passages from

said inlet to said outlet.

11. (currently amended) The fuel processor method of claim 10 wherein a

reduction in temperature increase in said mixing region is related to a number of said

bores formed through said body, a length of said temperature control element, and an

area of said passages.

12. (original) A temperature control element for a fuel cell processor,

comprising:

a body;

an inlet located at one end of said body;

an outlet located at an opposite end of said body; and

a plurality of bores forming passages from said inlet to said outlet.

13. (original) The temperature control element of claim 12 wherein said

temperature control element is located between a thermal start device and a mixing

region of said fuel processor.

14. (original) The temperature control element of claim 13 wherein said

temperature control element reduces temperature increase in said mixing region during

thermal startup.

- 15. (original) The temperature control element of claim 12 wherein said body has a cylindrical shape and said bores have a circular cross-section.
 - 16. (original) The temperature control element of claim 13 further comprising: a flame arrestor connected to said mixing region; and a primary reactor connected to said flame arrestor.
- 17. (original) The temperature control element of claim 13 wherein a reduction in temperature increase in said mixing region is related to a number of said bores formed in said body, a length of said temperature control element, and an area of said passages.
- 18. (original) The temperature control element of claim 12 wherein said temperature control element is passive.